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$$V_{js} - V_{j0} = \sum W_{ij} \cdot \log (x_i / r_i) \quad I$$

( $\Sigma$ の範囲は  $i=1$  から  $m$ まで)

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TITLE : MEASURING METHOD FOR TASTE

$$f_k - b_k = \sum F_{ki} \cdot \log (x_i / r_i) \quad II$$

( $\Sigma$ の範囲は  $i=1$  から  $m$ まで)

ABSTRACT : PURPOSE: To calculate a human sense quantity by obtaining sensitivity to each basic taste of each sensor by a plurality of molecular film using taste sensors, calculating the taste intensity, and then obtaining a quantity of change per unit sense of a human when concentration of a taste exhibiting substance is increased by a unit amount.

CONSTITUTION: When sensitivity measuring solution comprising a certain amount of a substance  $B_1$  (taste exhibiting substance) which exhibits a basic taste  $A_1$  added to reference solution  $E_0$  is measured by a taste sensor  $S_j$ , sensitivity  $W_{ij}$  to the basic taste  $A_1$  is obtained from the output. The sensor  $S_j$  is used to measure the reference solution  $E_0$  and sample solution  $E$ . to be measured, outputs  $V_{j0}, V_{js}$  of the sensor  $S_j$  and the sensitivity  $W_{ij}$  are substituted into an equation I, and simultaneous equations are solved to obtain concentration  $X_i$  of each taste exhibiting substance.  $r_i$  refers to concentration of a taste exhibiting substance  $B_i$  of the reference solution  $E_0$ . A unit sense change quantity  $F_{ki}$  of a human when the taste exhibiting substance  $B_i$  is added by a unit amount to the reference solution  $E_0$  is constant and thus can be easily obtained. The concentration  $X_i$ ,  $r_i$  from the equation I and the change quantity  $F_{ki}$  are substituted into an equation II to obtain a human sense quantity  $F_k$  of a human for each basic taste.

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